

SEQUENCE LISTING

<110> LIU, CHUAN-FA
 FEIGE, ULRICH
 CHEETHAM, JANET
 BOONE, THOMAS CHARLES

<120> MODIFIED PEPTIDES AS THERAPEUTIC AGENTS

<130> A-527

<140> NOT YET RECEIVED

<141> 1999-10-22

<150> 60/105,371

<151> 1998-10-23

<160> 1133

<170> PatentIn Ver. 2.1

<210> 1

<211> 684

<212> DNA

<213> HUMAN

<220>

<221> CDS

<222> (1)..(684)

<400> 1

atg	gac	aaa	act	cac	aca	tgt	cca	cct	tgt	cca	gct	ccg	gaa	ctc	ctg	48
Met	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	
1				5					10					15		

ggg	gga	ccg	tca	gtc	ttc	ctc	ttc	ccc	cca	aaa	ccc	aag	gac	acc	ctc	96
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	
			20					25					30			

atg	atc	tcc	cgg	acc	cct	gag	gtc	aca	tgc	gtg	gtg	gtg	gac	gtg	agc	144
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	
		35						40					45			

cac	gaa	gac	cct	gag	gtc	aag	ttc	aac	tgg	tac	gtg	gac	ggc	gtg	gag	192
His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	
	50					55					60					

gtg	cat	aat	gcc	aag	aca	aag	ccg	cgg	gag	gag	cag	tac	aac	agc	acg	240
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	
65					70					75					80	
tac	cgt	gtg	gtc	agc	gtc	ctc	acc	gtc	ctg	cac	cag	gac	tgg	ctg	aat	288
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	
				85					90					95		
ggc	aag	gag	tac	aag	tgc	aag	gtc	tcc	aac	aaa	gcc	ctc	cca	gcc	ccc	336
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	
			100					105					110			
atc	gag	aaa	acc	atc	tcc	aaa	gcc	aaa	ggg	cag	ccc	cga	gaa	cca	cag	384
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	
		115					120					125				
gtg	tac	acc	ctg	ccc	cca	tcc	cgg	gat	gag	ctg	acc	aag	aac	cag	gtc	432
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	
	130					135					140					
agc	ctg	acc	tgc	ctg	gtc	aaa	ggc	ttc	tat	ccc	agc	gac	atc	gcc	gtg	480
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	
145				150					155						160	
gag	tgg	gag	agc	aat	ggg	cag	ccg	gag	aac	aac	tac	aag	acc	acg	cct	528
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	
				165				170					175			
ccc	gtg	ctg	gac	tcc	gac	ggc	tcc	ttc	ttc	ctc	tac	agc	aag	ctc	acc	576
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	
			180					185					190			
gtg	gac	aag	agc	agg	tgg	cag	cag	ggg	aac	gtc	ttc	tca	tgc	tcc	gtg	624
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	
		195				200					205					
atg	cat	gag	gct	ctg	cac	aac	cac	tac	acg	cag	aag	agc	ctc	tcc	ctg	672
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	
	210				215					220						
tct	ccg	ggt	aaa													684
Ser	Pro	Gly	Lys													
225																

<210> 2
 <211> 228
 <212> PRT
 <213> HUMAN

<400> 2

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 210 215 220

Ser Pro Gly Lys
 225

<210> 3
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PEGYLATED
PEPTIDE

<400> 3
Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala
1 5 10 15

Arg Ala

<210> 4
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PEGYLATED
PEPTIDE

<400> 4
Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala
1 5 10 15

Arg Ala

<210> 5
<211> 794
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: FC-TMP

<220>
<221> CDS
<222> (39) .. (779)

<400> 5

tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca 56

Met Asp Lys Thr His Thr

1

5

tgt cca cct tgt cca gct ccg gaa ctc ctg ggg gga ccg tca gtc ttc 104

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe

10

15

20

ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct 152

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro

25

30

35

gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc 200

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val

40

45

50

aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca 248

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr

55

60

65

70

aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc 296

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val

75

80

85

ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc 344

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys

90

95

100

aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc 392

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser

105

110

115

aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca 440

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro

120

125

130

tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc 488

Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val

135

140

145

150

aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg 536

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly

155

160

165

cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac 584

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp

170	175	180	
ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg			632
Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp			
185	190	195	
cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac			680
Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His			
200	205	210	
aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga			728
Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly			
215	220	225	230
ggt ggt ggt atc gaa ggt ccg act ctg cgt cag tgg ctg gct gct cgt			776
Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg			
235	240	245	
gct taatctcgag gatcc			794
Ala			

<210> 6

<211> 247

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:Fc-TMP

<400> 6

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro

100	105	110
Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln		
115	120	125
Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val		
130	135	140
Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val		
145	150	155
Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro		
165	170	175
Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr		
180	185	190
Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val		
195	200	205
Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu		
210	215	220
Ser Pro Gly Lys Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg		
225	230	235
Gln Trp Leu Ala Ala Arg Ala		
245		

<210> 7

<211> 861

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Fc-TMP-TMP

<220>

<221> CDS

<222> (39) .. (842)

<400> 7

tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca 56

Met Asp Lys Thr His Thr

1

5

tgt cca cct tgt cca gct ccg gaa ctc ctg ggg gga ccg tca gtc ttc	104
Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe	
10 15 20	
ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct	152
Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro	
25 30 35	
gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc	200
Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val	
40 45 50	
aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca	248
Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr	
55 60 65 70	
aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc	296
Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val	
75 80 85	
ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc	344
Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys	
90 95 100	
aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc	392
Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser	
105 110 115	
aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca	440
Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro	
120 125 130	
tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc	488
Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val	
135 140 145 150	
aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg	536
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly	
155 160 165	
cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac	584
Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp	
170 175 180	
ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg	632
Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp	
185 190 195	

cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac 680
 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
 200 205 210

aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga 728
 Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly
 215 220 225 230

ggt ggt ggt atc gaa ggt ccg act ctg cgt cag tgg ctg gct gct cgt 776
 Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg
 235 240 245

gct ggt ggt gga ggt ggc ggc gga ggt att gag ggc cca acc ctt cgc 824
 Ala Gly Gly Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg
 250 255 260

caa tgg ctt gca gca cgc gcataatctc gaggatccg 861
 Gln Trp Leu Ala Ala Arg
 265

<210> 8

<211> 268

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:Fc-TMP-TMP

<400> 8

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125
 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160
 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175
 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190
 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 195 200 205
 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 210 215 220
 Ser Pro Gly Lys Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg
 225 230 235 240
 Gln Trp Leu Ala Ala Arg Ala Gly Gly Gly Gly Gly Gly Gly Ile
 245 250 255
 Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg
 260 265

<210> 9

<211> 855

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TMP-TMP-Fc

<220>

<221> CDS

<222> (39)..(845)

<400> 9

tctagatttg ttttaactaa ttaaaggagg aataacat atg atc gaa ggt ccg act 56
 Met Ile Glu Gly Pro Thr

	1	5	
ctg cgt cag tgg ctg gct gct cgt gct ggc ggt ggt ggc gga ggg ggt			104
Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly Gly Gly Gly Gly Gly			
	10	15	20
ggc att gag ggc cca acc ctt cgc caa tgg ctt gca gca cgc gca ggg			152
Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly			
	25	30	35
gga ggc ggt ggg gac aaa act cac aca tgt cca cct tgc cca gca cct			200
Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro			
	40	45	50
gaa ctc ctg ggg gga ccg tca gtt ttc ctc ttc ccc cca aaa ccc aag			248
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys			
	55	60	65
gac acc ctc atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg			296
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val			
	75	80	85
gac gtg agc cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac			344
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp			
	90	95	100
ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac			392
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr			
	105	110	115
aac agc acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac			440
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp			
	120	125	130
tgg ctg aat ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc			488
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu			
	135	140	145
cca gcc ccc atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga			536
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg			
	155	160	165
gaa cca cag gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag			584
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys			
	170	175	180
aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac			632
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp			

185	190	195	
atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag			680
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys			
200	205	210	
acc acg cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc			728
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser			
215	220	225	230
aag ctc acc gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca			776
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser			
235	240	245	
tgc tcc gtg atg cat gag gct ctg cac aac cac tac acg cag aag agc			824
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser			
250	255	260	
ctc tcc ctg tct ccg ggt aaa taatggatcc			855
Leu Ser Leu Ser Pro Gly Lys			
265			

<210> 10

<211> 269

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:TMP-TMP-Fc

<400> 10

Met	Ile	Glu	Gly	Pro	Thr	Leu	Arg	Gln	Trp	Leu	Ala	Ala	Arg	Ala	Gly
1				5					10					15	

Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ile	Glu	Gly	Pro	Thr	Leu	Arg	Gln	Trp
			20					25						30	

Leu	Ala	Ala	Arg	Ala	Gly	Gly	Gly	Gly	Gly	Asp	Lys	Thr	His	Thr	Cys
			35					40				45			

Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu
		50					55				60				

Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu
			65			70				75				80	

Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys
						85				90				95	

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 100 105 110
 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 115 120 125
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
 130 135 140
 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
 145 150 155 160
 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
 165 170 175
 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 180 185 190
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 195 200 205
 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
 210 215 220
 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 225 230 235 240
 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
 245 250 255
 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 260 265

<210> 11

<211> 789

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TMP-Fc

<220>

<221> CDS

<222> (39)---(779)

<400> 11

tctagatttg ttttaactaa ttaaaggagg aataacat atg atc gaa ggt ccg act 56
Met Ile Glu Gly Pro Thr
1 5

ctg cgt cag tgg ctg gct gct cgt gct ggt gga ggc ggt ggg gac aaa 104
Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly Gly Gly Gly Asp Lys
10 15 20

act cac aca tgt cca cct tgc cca gca cct gaa ctc ctg ggg gga ccg 152
Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
25 30 35

tca gtt ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc 200
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
40 45 50

cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac 248
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
55 60 65 70

cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat 296
Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
75 80 85

gcc aag aca aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg 344
Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
90 95 100

gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag 392
Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
105 110 115

tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa 440
Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
120 125 130

acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc 488
Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
135 140 145 150

ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc 536
Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
155 160 165

tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag 584
Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
170 175 180

agc aat ggg cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg 632
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 185 190 195

gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag 680
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 200 205 210

agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag 728
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 215 220 225 230

gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt 776
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 235 240 245

aaa taatggatcc 789
 Lys

<210> 12

<211> 247

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:TMP-Fc

<400> 12

Met Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly
 1 5 10 15

Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 20 25 30

Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 35 40 45

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 50 55 60

Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 65 70 75 80

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 85 90 95

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 100 105 110

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 115 120 125
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 130 135 140
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 145 150 155 160
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 165 170 175
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 180 185 190
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 195 200 205
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 210 215 220
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 225 230 235 240
 Leu Ser Leu Ser Pro Gly Lys
 245

<210> 13

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TMP

<400> 13

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
 1 5 10

<210> 14

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TMP-TMP

<400> 14

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Gly
 1 5 10 15

Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu
 20 25 30

Ala Ala Arg Ala
 35

<210> 15

<211> 812

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Fc-EMP

<220>

<221> CDS

<222> (39)..(797)

<400> 15

tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca 56
 Met Asp Lys Thr His Thr
 1 5

tgt cca cct tgt cca gct ccg gaa ctc ctg ggg gga ccg tca gtc ttc 104
 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
 10 15 20

ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct 152
 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 25 30 35

gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc 200
 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
 40 45 50

aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca 248
 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 55 60 65 70

aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc 296
Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
75 80 85

ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc 344
Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
90 95 100

aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc 392
Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
105 110 115

aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca 440
Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
120 125 130

tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc 488
Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
135 140 145 150

aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg 536
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
155 160 165

cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac 584
Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
170 175 180

ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg 632
Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
185 190 195

cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac 680
Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
200 205 210

aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga 728
Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly
215 220 225 230

ggt ggt ggt gga ggt act tac tct tgc cac ttc ggc ccg ctg act tgg 776
Gly Gly Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp
235 240 245

gtt tgc aaa ccg cag ggt ggt taatctcgtg gatcc 812
Val Cys Lys Pro Gln Gly Gly
250

<210> 16
 <211> 253
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence:Fc-EMP

<400> 16

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu

210	215	220
Ser Pro Gly Lys Gly Gly Gly Gly Gly Gly Gly Thr Tyr Ser Cys His		
225	230	235 240
Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly		
245	250	

<210> 17
 <211> 807
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:EMP-Fc

<220>
 <221> CDS
 <222> (39)..(797)

<400> 17
 tctagatttg ttttaactaa ttaaaggagg aataacat atg gga ggt act tac tct .56
 Met Gly Gly Thr Tyr Ser
 1 5

tgc cac ttc ggc ccg ctg act tgg gta tgt aag cca caa ggg ggt ggg 104
 Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly Gly
 10 15 20

gga ggc ggg ggg gac aaa act cac aca tgt cca cct tgc cca gca cct 152
 Gly Gly Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 25 30 35

gaa ctc ctg ggg gga ccg tca gtt ttc ctc ttc ccc cca aaa ccc aag 200
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 40 45 50

gac acc ctc atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg 248
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 55 60 65 70

gac gtg agc cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac 296
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 75 80 85

ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac 344

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr	
90 95 100	
aac agc acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac	392
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp	
105 110 115	
tgg ctg aat ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc	440
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu	
120 125 130	
cca gcc ccc atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga	488
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg	
135 140 145 150	
gaa cca cag gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag	536
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys	
155 160 165	
aac cag gtc agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac	584
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp	
170 175 180	
atc gcc gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag	632
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys	
185 190 195	
acc acg cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc	680
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser	
200 205 210	
aag ctc acc gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca	728
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser	
215 220 225 230	
tgc tcc gtg atg cat gag gct ctg cac aac cac tac acg cag aag agc	776
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser	
235 240 245	
ctc tcc ctg tct ccg ggt aaa taatggatcc	807
Leu Ser Leu Ser Pro Gly Lys	
250	

<210> 18

<211> 253

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:EMP-Fc

<400> 18

Met Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys
1 5 10 15

Lys Pro Gln Gly Gly Gly Gly Gly Gly Gly Asp Lys Thr His Thr Cys
20 25 30

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
35 40 45

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
50 55 60

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
65 70 75 80

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
85 90 95

Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
100 105 110

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
115 120 125

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
130 135 140

Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser
145 150 155 160

Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
165 170 175

Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
180 185 190

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
195 200 205

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
210 215 220

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
225 230 235 240

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 245 250

<210> 19

<211> 881

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:EMP-EMP-Fc

<220>

<221> CDS

<222> (41)..(871)

<400> 19

tctagatttg agttttaact tttagaagga ggaataaaat atg gga ggt act tac	55
Met Gly Gly Thr Tyr	
1 5	
tct tgc cac ttc ggc cca ctg act tgg gtt tgc aaa ccg cag ggt ggc	103
Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly	
10 15 20	
ggc ggc ggc ggc ggt ggt acc tat tcc tgt cat ttt ggc ccg ctg acc	151
Gly Gly Gly Gly Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr	
25 30 35	
tgg gta tgt aag cca caa ggg ggt ggg gga ggc ggg ggg gac aaa act	199
Trp Val Cys Lys Pro Gln Gly Gly Gly Gly Gly Gly Asp Lys Thr	
40 45 50	
cac aca tgt cca cct tgc cca gca cct gaa ctc ctg ggg gga ccg tca	247
His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser	
55 60 65	
gtt ttc ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg	295
Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg	
70 75 80 85	
acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct	343
Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro	
90 95 100	
gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc	391
Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala	

105	110	115	
aag aca aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc			439
Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val			
120	125	130	
agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac			487
Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr			
135	140	145	
aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc			535
Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr			
150	155	160	165
atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg			583
Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu			
170	175	180	
ccc cca tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc			631
Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys			
185	190	195	
ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc			679
Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser			
200	205	210	
aat ggg cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac			727
Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp			
215	220	225	
tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc			775
Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser			
230	235	240	245
agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct			823
Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala			
250	255	260	
ctg cac aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa			871
Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys			
265	270	275	
taatggatcc			881

<210> 20
 <211> 277
 <212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:EMP-EMP-Fc

<400> 20

Met Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys
 1 5 10 15

Lys Pro Gln Gly Gly Gly Gly Gly Gly Gly Thr Tyr Ser Cys His
 20 25 30

Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly Gly Gly Gly
 35 40 45

Gly Gly Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 50 55 60

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 65 70 75 80

Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 85 90 95

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 100 105 110

Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 115 120 125

Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 130 135 140

Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 145 150 155 160

Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 165 170 175

Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 180 185 190

Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 195 200 205

Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 210 215 220

Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 225 230 235 240

Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 245 250 255

Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 260 265 270

Leu Ser Pro Gly Lys
 275

<210> 21

<211> 884

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Fc-EMP-EMP

<220>

<221> CDS

<222> (39)..(869)

<400> 21

tctagatttg ttttaactaa ttaaaggagg aataacat atg gac aaa act cac aca 56
 Met Asp Lys Thr His Thr
 1 5

tgt cca cct tgc cca gca cct gaa ctc ctg ggg gga ccg tca gtt ttc 104
 Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe
 10 15 20

ctc ttc ccc cca aaa ccc aag gac acc ctc atg atc tcc cgg acc cct 152
 Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 25 30 35

gag gtc aca tgc gtg gtg gtg gac gtg agc cac gaa gac cct gag gtc 200
 Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
 40 45 50

aag ttc aac tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca 248
 Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 55 60 65 70

aag ccg cgg gag gag cag tac aac agc acg tac cgt gtg gtc agc gtc 296
 Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
 75 80 85

ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc	344
Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys	
90 95 100	
aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc	392
Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser	
105 110 115	
aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg cct cca	440
Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro	
120 125 130	
tcc cgg gat gag ctg acc aag aac cag gtc agc ctg acc tgc ctg gtc	488
Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val	
135 140 145 150	
aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg	536
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly	
155 160 165	
cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac	584
Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp	
170 175 180	
ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg	632
Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp	
185 190 195	
cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac	680
Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His	
200 205 210	
aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa ggt gga	728
Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly	
215 220 225 230	
ggt ggt ggc gga ggt act tac tct tgc cac ttc ggc cca ctg act tgg	776
Gly Gly Gly Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp	
235 240 245	
gtt tgc aaa ccg cag ggt ggc ggc ggc ggc ggc ggt ggt acc tat tcc	824
Val Cys Lys Pro Gln Gly Gly Gly Gly Gly Gly Gly Gly Thr Tyr Ser	
250 255 260	
tgt cat ttt ggc ccg ctg acc tgg gta tgt aag cca caa ggg ggt	869
Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly	
265 270 275	

taatctcgag gatcc

884

<210> 22

<211> 277

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence:Fc-EMP-EMP

<400> 22

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val

195 200 205
 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 210 215 220
 Ser Pro Gly Lys Gly Gly Gly Gly Gly Gly Thr Tyr Ser Cys His
 225 230 235 240
 Phe Gly Pro Leu Thr Trp Val Cys Lys Pro Gln Gly Gly Gly Gly Gly
 245 250 255
 Gly Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys
 260 265 270
 Lys Pro Gln Gly Gly
 275

<210> 23
 <211> 1545
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:pAMG216

<400> 23
 cgtaacgtat gcatggtctc cccatgcgag agtagggaac tgccaggcat caaataaaaac 60
 gaaaggctca gtcgaaagac tgggcctttc gttttatctg ttgtttgtcg gtgaacgctc 120
 tcctgagtag gacaaatccg ccgggagcgg atttgaacgt tgcgaagcaa cggcccggag 180
 ggtggcgggc aggacgcccg ccataaactg ccaggcatca aattaagcag aaggccatcc 240
 tgacggatgg cctttttgcg tttctacaaa ctcttttgtt tatttttcta aatacattca 300
 aatatggacg tcgtacttaa cttttaaagt atgggcaatc aattgctcct gttaaaaattg 360
 ctttagaaat actttggcag cggtttgttg tattgagttt catttgcgca ttggttaaatt 420
 ggaaagtgac cgtgcgctta ctacagccta atatttttga aatatcccaa gagctttttc 480
 cttcgcatgc ccacgctaaa cattcttttt ctcttttggg taaatcggtg ttgatttat 540
 tatttgctat atttattttt cgataattat caactagaga aggaacaatt aatggtatgt 600
 tcatacacgc atgtaaaaat aaactatcta tatagttgtc tttctctgaa tgtgcaaaac 660
 taagcattcc gaagccatta ttagcagtat gaatagggaa actaaaccca gtgataagac 720
 ctgatgattt cgcttcttta attacatttg gagatttttt atttacagca ttgttttcaa 780
 atatattcca attaatacggg gaatgattgg agttagaata atctactata ggatcatatt 840
 ttattaaatt agcgtcatca taatattgcc tccatttttt agggtaatta tccagaattg 900
 aaatatcaga ttttaaccata gaatgaggat aaatgatcgc gagtaaataa tattcacaat 960
 gtaccatttt agtcatatca gataagcatt gattaatatc attattgctt ctacaggctt 1020
 taatttttatt aattattctg taagtgtcgt cggcatttat gtctttcata cccatctctt 1080
 tatecttacc tattgtttgt cgcaagtttt gcgtgttata tatcattaaa acggtaatatg 1140
 attgacattt gattctaata aattggattt ttgtcacact attatatcgc ttgaaataca 1200

```

attgtttaac ataagtacct gtaggatcgt acagggtttac gcaagaaaat gggttggttat 1260
agtcgattaa tcgatttgat tctagatttg ttttaactaa ttaaaggagg aataacatat 1320
ggttaacgcg ttggaattcg agctcactag tgtcgacctg cagggtacca tggaagctta 1380
ctcgaggatc cgcggaaaga agaagaaga gaagaaagcc cgaaaggaag ctgagttggc 1440
tgctgccacc gctgagcaat aactagcata accccttggg gcctctaaac gggctctgag 1500
gggttttttg ctgaaaggag gaaccgctct tcacgctctt cacgc 1545

```

<210> 24

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 24

```

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Lys Ala
  1               5               10

```

<210> 25

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 25

```

Ile Glu Gly Pro Thr Leu Arg Glu Trp Leu Ala Ala Arg Ala
  1               5               10

```

<210> 26

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<220>

<223> At position 15, Xaa=a linker sequence of 1 to 20 amino acids

<400> 26

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Xaa Ile
1 5 10 15

Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
20 25

<210> 27

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC PEPTIDE

<220>

<223> At position 15, Xaa=a linker sequence of 1 to 20 amino acids

<400> 27

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Lys Ala Xaa Ile
1 5 10 15

Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Lys Ala
20 25

<210> 28

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC PEPTIDE

<220>

<223> At position 9 disulfide linkage with residue 24

<220>

<223> At position 24 disulfide linkage with residue 9

<400> 28

Ile Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala Xaa Ile
1 5 10 15

Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala
20 25

<210> 29

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<220>

<223> At position 16 bromoacetyl group linked to
sidechain

<400> 29

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Xaa Lys
1 5 10 15

Xaa Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
20 25 30

<210> 30

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<220>

<223> At position 16 polyethylene glycol linked to
sidechain

<400> 30

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Xaa Lys
1 5 10 15

Xaa Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
 20 25 30

<210> 31

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
 PEPTIDE

<220>

<223> At position 9 disulfide bond to residue 9 of a
 separate identical sequence

<400> 31

Ile Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala Xaa Ile
 1 5 10 15

Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
 20 25

<210> 32

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
 PEPTIDE

<220>

<223> At position 24 disulfide bond to residue 9 of a
 separate identical sequence

<400> 32

Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Xaa Ile
 1 5 10 15

Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala
 20 25

<210> 33
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 33
Val Arg Asp Gln Ile Xaa Xaa Xaa Leu
1 5

<210> 34
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 34
Thr Leu Arg Glu Trp Leu
1 5

<210> 35
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 35
Gly Arg Val Arg Asp Gln Val Ala Gly Trp
1 5 10

<210> 36

<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 36

Gly Arg Val Lys Asp Gln Ile Ala Gln Leu
1 5 10

<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Description of
Artificial SequenceTPO-MIMETIC PEPTIDE

<400> 37

Gly Val Arg Asp Gln Val Ser Trp Ala Leu
1 5 10

<210> 38
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 38

Glu Ser Val Arg Glu Gln Val Met Lys Tyr
1 5 10

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 39

Ser Val Arg Ser Gln Ile Ser Ala Ser Leu
1 5 10

<210> 40

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 40

Gly Val Arg Glu Thr Val Tyr Arg His Met
1 5 10

<210> 41

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:INTEGRIN
BINDING PEPTIDE

<400> 41

Gly Val Arg Glu Val Ile Val Met His Met Leu
1 5 10

<210> 42

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC

PEPTIDE

<400> 42

Gly Arg Val Arg Asp Gln Ile Trp Ala Ala Leu
1 5 10

<210> 43

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 43

Ala Gly Val Arg Asp Gln Ile Leu Ile Trp Leu
1 5 10

<210> 44

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 44

Gly Arg Val Arg Asp Gln Ile Met Leu Ser Leu
1 5 10

<210> 45

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 45

Gly Arg Val Arg Asp Gln Ile Xaa Xaa Xaa Leu
1 5 10

<210> 46

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 46

Cys Thr Leu Arg Gln Trp Leu Gln Gly Cys
1 5 10

<210> 47

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 47

Cys Thr Leu Gln Glu Phe Leu Glu Gly Cys
1 5 10

<210> 48

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 48

Cys Thr Arg Thr Glu Trp Leu His Gly Cys
1 5 10

<210> 49
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 49
Cys Thr Leu Arg Glu Trp Leu His Gly Gly Phe Cys
1 5 10

<210> 50
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Fc-TMP

<400> 50
Cys Thr Leu Arg Glu Trp Val Phe Ala Gly Leu Cys
1 5 10

<210> 51
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Fc-TMP

<400> 51
Cys Thr Leu Arg Gln Trp Leu Ile Leu Leu Gly Met Cys
1 5 10

<210> 52
<211> 14
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 52

Cys Thr Leu Ala Glu Phe Leu Ala Ser Gly Val Glu Gln Cys
1 5 10

<210> 53

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Fc-TMP

<400> 53

Cys Ser Leu Gln Glu Phe Leu Ser His Gly Gly Tyr Val Cys
1 5 10

<210> 54

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Fc-TMP

<400> 54

Cys Thr Leu Arg Glu Phe Leu Asp Pro Thr Thr Ala Val Cys
1 5 10

<210> 55

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 55

Cys Thr Leu Lys Glu Trp Leu Val Ser His Glu Val Trp Cys
1 5 10

<210> 56

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 56

Cys Thr Leu Arg Glu Trp Leu Xaa Xaa Cys
1 5 10

<210> 57

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 57

Cys Thr Leu Arg Glu Trp Leu Xaa Xaa Xaa Cys
1 5 10

<210> 58

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 58

Cys Thr Leu Arg Glu Trp Leu Xaa Xaa Xaa Xaa Cys

1

5

10

<210> 59

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 59

Cys Thr Leu Arg Glu Trp Leu Xaa Xaa Xaa Xaa Xaa Cys

1

5

10

<210> 60

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 60

Cys Thr Leu Arg Glu Trp Leu Xaa Xaa Xaa Xaa Xaa Xaa Cys

1

5

10

<210> 61

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 61

Arg Glu Gly Pro Thr Leu Arg Gln Trp Met

1

5

10

<210> 62
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 62
Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala
1 5 10

<210> 63
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 63
Glu Arg Gly Pro Phe Trp Ala Lys Ala Cys
1 5 10

<210> 64
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 64
Arg Glu Gly Pro Arg Cys Val Met Trp Met
1 5 10

<210> 65
<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 65

Cys Gly Thr Glu Gly Pro Thr Leu Ser Thr Trp Leu Asp Cys
1 5 10

<210> 66

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 66

Cys Glu Gln Asp Gly Pro Thr Leu Leu Glu Trp Leu Lys Cys
1 5 10

<210> 67

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 67

Cys Glu Leu Val Gly Pro Ser Leu Met Ser Trp Leu Thr Cys
1 5 10

<210> 68

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 68

Cys Leu Thr Gly Pro Phe Val Thr Gln Trp Leu Tyr Glu Cys
1 5 10

<210> 69

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 69

Cys Arg Ala Gly Pro Thr Leu Leu Glu Trp Leu Thr Leu Cys
1 5 10

<210> 70

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 70

Cys Ala Asp Gly Pro Thr Leu Arg Glu Trp Ile Ser Phe Cys
1 5 10

<210> 71

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 71

Cys Xaa Glu Gly Pro Thr Leu Arg Glu Trp Leu Xaa Cys
1 5 10

<210> 72

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 72

Cys Xaa Xaa Glu Gly Pro Thr Leu Arg Glu Trp Leu Xaa Cys
1 5 10

<210> 73

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 73

Cys Xaa Glu Gly Pro Thr Leu Arg Glu Trp Leu Xaa Xaa Cys
1 5 10

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 74

Cys Xaa Xaa Glu Gly Pro Thr Leu Arg Glu Trp Leu Xaa Xaa Cys

1

5

10

15

<210> 75

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 75

Gly	Gly	Cys	Thr	Leu	Arg	Glu	Trp	Leu	His	Gly	Gly	Phe	Cys	Gly	Gly
1				5				10						15	

<210> 76

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 76

Gly	Gly	Cys	Ala	Asp	Gly	Pro	Thr	Leu	Arg	Glu	Trp	Ile	Ser	Phe	Cys
1				5				10						15	

Gly Gly

<210> 77

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 77

Gly Asn Ala Asp Gly Pro Thr Leu Arg Gln Trp Leu Glu Gly Arg Arg

1

5

10

15

Pro Lys Asn

<210> 78

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 78

Leu Ala Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu His Gly Asn Gly
1 5 10 15

Arg Asp Thr

<210> 79

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 79

His Gly Arg Val Gly Pro Thr Leu Arg Glu Trp Lys Thr Gln Val Ala
1 5 10 15

Thr Lys Lys

<210> 80

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 80

Thr Ile Lys Gly Pro Thr Leu Arg Gln Trp Leu Lys Ser Arg Glu His
1 5 10 15

Thr Ser

<210> 81

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 81

Ile Ser Asp Gly Pro Thr Leu Lys Glu Trp Leu Ser Val Thr Arg Gly
1 5 10 15

Ala Ser

<210> 82

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:TPO-MIMETIC
PEPTIDE

<400> 82

Ser Ile Glu Gly Pro Thr Leu Arg Glu Trp Leu Thr Ser Arg Thr Pro
1 5 10 15

His Ser

<210> 83
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:EPO-MIMETIC
PEPTIDE

<400> 83
Tyr Xaa Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Pro
1 5 10

<210> 84
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:EPO-MIMETIC
PEPTIDE

<400> 84
Tyr Xaa Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Pro Tyr Xaa
1 5 10 15

Cys Xaa Xaa Gly Pro Xaa Thr Trp Xaa Cys Xaa Pro
20 25

<210> 85
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:EPO-MIMETIC
PEPTIDE

<220>
<223> At position 15, Xaa=a linker sequence of 1 to 20
amino acids

<400> 85